

In re Patent Application of:

LEPPEK

Serial No. **09/827,386**

Filing Date: **April 5, 2001**

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REMARKS

Claims 1-11 remain in this application. Claims 12-15 have been previously cancelled. Claims 1, 6, 8 and 10 have been amended.

Applicant thanks the Examiner for the detailed study of the application and prior art. Claim 6 has been amended to overcome the informality rejection by changing the word "sequentially" to the word --successively--.

Applicant has also amended the claims to stress the novel and unobvious features of the present invention in which at least three sequentially different encryption operators are used to encrypt the data, which is transported over a communication path to a first of the sequentially different encryption operators arranged in a cascaded sequence to produce a first encrypted data stream. This is followed by successively passing the first encrypted data stream through the cascaded sequence of the sequentially different data encryption operators. The present invention successively accesses the at least three different sequentially different encryption operators and successively wraps previously encrypted data with the next respective encryption operator until the last access code in an encryption control sequence

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is processed to produce the multiple-encrypted output data stream that is an encryption of the first encrypted data stream.

A non-limiting example of this encryption process is set forth in the instant application as a non-limiting example on page 11, starting at line 15 and continuing through page 12 and to page 13 at line 6, where three encryption operators are set forth (but, of course, many more could be used and typically are for greater security). The data is wrapped with a first encryption operator. This is followed by having a supervisory encryption call up a second operator entry associated with the second code of the sequence and applying the initially wrapped data to the second encryption operator entry to wrap the previously encrypted data. The system successively accesses sequentially differing encryption operators and wraps the previously encrypted data until the last access code from the encryption control sequence is processed.

Applicant notes that the primary reference Morgan is directed to creating specific purpose, rule-based N-bit virtual machines, which could include a compression or encryption operation. In Morgan, a succession of N rules is applied to input data to yield encrypted or compressed data.

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These rules can be successively applied. There is nothing in Morgan to suggest multiple encryption, especially by at least three sequentially different encryption operators, such that the system and method successively accesses the at least three different sequentially different encryption operators and successively wraps the previously encrypted data with the next respective encryption operator into the last access code as an encryption control sequence is processed.

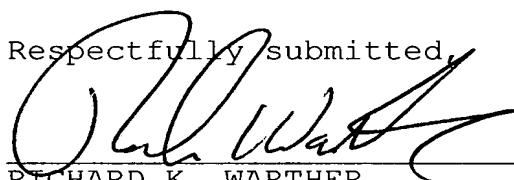
The Examiner uses Stinson to teach multiple encryption even though Stinson is specifically directed to product encryption. Stinson teaches the cryptosystem combining system taught by Shannon to form a "product," for example, of a first cipher and shift cipher. Shannon technology dates to 1949, and Stinson explains the basics of this technology. Stinson nowhere suggests the present claimed invention in which at least three sequentially different data encryption operators are used, where the encryption system successively accesses the at least three different sequentially different encryption operators and successively wraps previously encrypted data with the next respective encryption operator into the last access code in an encryption control sequence. This is a successive operation based upon the sequentially different data encryption operators. It is

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not a product of a first cipher and shift cipher as taught by Shannon and Stinson.

Applicant contends that the present case is in condition for allowance and respectfully requests that the Examiner issue a Notice of Allowance and Issue Fee Due. If the Examiner has any questions or suggestions for placing this case in condition for allowance, the undersigned attorney would appreciate a telephone call.

Respectfully submitted,



RICHARD K. WARTHNER
Reg. No. 32,180
Allen, Dyer, Doppelt, Milbrath
& Gilchrist, P.A.
255 S. Orange Avenue, Suite 1401
Post Office Box 3791
Orlando, Florida 32802
Phone: 407-841-2330

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I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: **MAIL STOP AMENDMENT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450**, on this 12th day of July, 2004.